

MISCELLANEOUS NOTES ON CICADELLIDÆ
(HOMOPTERA)

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The information here presented was assembled during the process of reviewing the "Check List of the Cicadellidæ (Homoptera) of America North of Mexico" by DeLong and Knull, 1945. All specific synonymy indicated is based upon a study of holotypes of the respective names, except that of *Euscelis schenkii* (Kbm.).

***Phlepsius personatus* Baker**

Phlepsius personatus Baker, Canad. Ent., 30: 30, 1898.

Phlepsius cinerosus Osborn and Lathrop, Ann. Ent. Soc. Amer., 16: 347, 1923. New synonymy.

DeLong and Knull place *cinerosus* as a synonym of *spatulatus* Van Duzee, 1892.

***Lævicephalus acus* (Sanders and DeLong)**

Deltocephalus acus Sanders and DeLong, Pa. Dept. Agr., Gen. Bul. 346, U. S. Bur. Plant Indus., Tech. Ser. Bul. 1: 10, 1920.

Lævicephalus rotundens DeLong and Davidson, Canad. Ent., 67: 167, 1935. New synonymy.

***Lævicephalus helvinus* (Van Duzee)**

Thamnotettix helvinus Van Duzee, Proc. Calif. Acad. Sci., 7: 300, 1917.

Lævicephalus flabellum DeLong, Ohio Jour. Sci., 38: 217, 1938. New synonymy.

***Lævicephalus lenis* (Van Duzee)**

Thamnotettix lenis Van Duzee, Proc. Calif. Acad. Sci., 14: 423, 1925.

Lævicephalus wilsoni Oman, Proc. Ent. Soc. Wash., 34: 91, 1932. New synonymy.

Lævicephalus auratus (Gillette and Baker)

Deltocephalus auratus Gillette and Baker, Colo. State Agr. Col., Agr. Expt. Sta. Bul., 31: 85, 1895.

Lævicephalus exectus DeLong, Ohio State Univ., Studies 2: 78, 1926. New synonymy.

Lævicephalus subrutilus DeLong and Slesman, Ann. Ent. Soc. Amer., 22: 103, 1929. New synonymy.

The holotype of *exectus* is a typical *auratus* female, that sex normally lacking the orange-yellow color of the males. The male holotype of *subrutilus* is *auratus* but all other specimens in the type series of *subrutilus*, consisting of 4 females and 1 male, are *Lævicephalus perpusillus* (Ball and DeLong, 1926). Sanders and DeLong (Pa. Dept. Agr., Gen. Bul. 346, U. S. Bur. Plant Indus., Tech. Ser. Bul. 1: pl. 3, fig. 5a, 1920) and DeLong (Ohio State Univ. Studies 2: pl. 16, fig. 5a, 1926) illustrated the female of *perpusillus* as *auratus*. DeLong and Slesman's illustrations (Ann. Ent. Soc. Amer., 22: pls. 5 and 8, 1929) of the male genitalia of *subrutilus* are from the above-mentioned male paratype, an example of *perpusillus*.

Lonatura salsura Ball

Lonatura salsura Ball, Canad. Ent., 31: 310, 1899.

Deltocephalus turbineus DeLong and Davidson, Canad. Ent., 67: 171, 1935. New synonymy.

The female holotype of *turbineus* is a long-winged specimen of *salsura*.

Exitianus picatus (Gibson)

Athysanus picatus Gibson, Proc. Biol. Soc. Wash., 32: 26, 1919.

Athysanus miniaturatus Gibson, *l.c.*

E. picatus is not a synonymy of *obscurinervis* (Stal), as indicated by DeLong and Knull, but a distinct species, primarily tropical in distribution and occurring as far north as southern Arizona.

Ollarianus kinoanus (Ball), new combination

Exitianus kinoanus Ball, Bul. Brooklyn Ent. Soc., 31: 71, 1936.

Ballana vesca (Ball)

Thamnotettix atridorsum var. *vesca* Ball, Canad. Ent., 42: 302, 1910.

Ballana gruis DeLong, Ohio Jour. Sci., 37: 114, 1937. New synonymy.

Spathanus acuminatus (Baker)

Athysanus acuminatus Baker, Psyche 7, Suppl. 1: 25, 1896.

Scaphoideus mirus Van Duzee, Proc. Calif. Acad. Sci., 14: 419, 1925. New combination, new synonymy.

DeLong and Knull place *mirus* in the genus *Osbornellus* but examination of Van Duzee's type shows it to be merely a highly colored example of *acuminatus*.

Empoasca denticula Gillette

Empoasca denticula Gillette, Proc. U. S. Nat. Mus., 20: 734, 1898.

This species has long been considered a synonym of *maligna* Walsh and is so listed by DeLong and Knull. Gillette's description of *denticula*, based upon 3 males and 1 female from Colorado, deals with a species easily separable from *maligna* on the basis of the characters of sternite VII of the female. Two of the 3 males in the original type series are properly associated with the female described, and one of these, to which Gillette attached his determination label, is here designated lectotype. This specimen bears the pin-label data "Colo. 1741, Co-type No. 3426 U. S. N. M."

Psammotettix Haupt

Psammotettix Haupt, Zool. Jahrb., 58: 262, 1929. Type, by original designation, *Athysanus maritimus* Perris, 1857.

Ribautiellus Zachvatkin, Mem. Soc. Ent. Ital., 12: 268, 1934. Type, by original designation, *Cicada striata* Linnæus, 1758.

This genus is represented in the Nearctic Region by the *striatus* group of species included in the genus *Lavicephalus* by DeLong and Knull. *Lavicephalus cicatrix* DeLong and Sleesman, 1929, and *evansi* (Ashmead, 1904), included in the *striatus* group by DeLong and Knull, do not belong in *Psammotettix* but will remain in *Lavicephalus*. The revised list of species, representing

new combinations with *Psammotettix* except for *striatus*, is as follows:

<i>affinis</i> (G. & B., 1895)	<i>latipex</i> (DeL. & D., 1935) = <i>stri-</i>
<i>amplus</i> (DeL. & D., 1935)	<i>atus</i> (L., 1758)
<i>attenuens</i> (DeL. & D., 1935)	<i>shoshone</i> (DeL. & D., 1934)
<i>cahuillus</i> (Van D., 1925)	<i>striatus</i> (L., 1758)
<i>excavatus</i> (Oman, 1931)	<i>latipex</i> (DeL. & D., 1935)
<i>ferratus</i> (DeL. & D., 1935)	<i>totalus</i> (DeL. & D., 1935)
<i>harrimani</i> (Ashm., 1904)	

Dikraneura subgenus *Notus* Fieber

Notus Fieber, Zool.-Bot. Gesell. Wien, Verhandl., 16: 508, 1866.

Type, by subsequent designation of McAtee (Proc. Zool. Soc. London, p. 114, 1934), *Cicada flavipennis* Zetterstedt, 1828.

Dikraneura subgenus *Curta* DeLong and Caldwell, Proc. Wash. Ent. Soc., 39: 30, 1937. Type, by original designation, *Dikraneura (Curta) alta* DeLong and Caldwell, 1937. New synonymy.

Representatives of the subgenus *Notus* may be differentiated from typical *Dikraneura* by the large, quadrangular valve and the two openings of the ejaculatory duct in the male sex. The following two North American species are referred to the subgenus *Notus*:

alta (DeL. & C., 1937), new combination

sitka (DeL. & C., 1937), new combination

The following records are of apparently introduced forms which should be added to the list of Nearctic species.

Idiocerus albicans Kirschbaum

A European species collected from cottonwood (*Populus trichocarpa*) at Nicolaus, Calif., and Puyallup, Wash., in 1935 (Oman).

Macropsis tiliæ (Germar)

A European species collected at New Haven, Conn., in 1934 (Oman).

Agallia albidula Uhler

A Neotropical species formerly recorded with some doubt from Mount Desert Island, Maine. It was collected in numbers at La Belle, Fla., in 1939 (Oman).

Athysanus argentatus (Fabricius)

A European species now well established in New England. Specimens from Crawford Notch, Willey House, and Bath, N. H.; Waterville, Maine; and Holliston and Monterey, Mass., have been examined. Earliest North American record, 1934.

Euscelis schenkii (Kirschbaum)

Jassus (Athysanus) Schenkii Kirschbaum, Nassau. Ver. f. Naturk. Jahrb., 21 and 22: 111, 1868.

Euscelis maculipennis DeLong and Davidson, Jour. N. Y. Ent. Soc., 42: 221, 1934. New synonymy.

A European species now widely distributed in Idaho, western Washington, and northwestern Oregon. Earliest collection record for North America, 1927.

Paramesus nervosus (Fallén)

A European species collected at Rigaud, Quebec, by J. Ouellet. Year of collection not indicated.

Baldulus elimatus (Ball)

A Sonoran species collected at Patagonia, Ariz. (Kusche), and at El Paso, Tex. (Turner). Earliest record from the United States, 1927.

Empoasca punctum Haupt

A European species collected from elm at Chestnut Hill, Pa., in 1930, by F. F. Smith, and at Roosevelt, Utah, in 1937, by G. F. Knowlton. Knowlton reported the Utah specimens to be injuring Siberian elms.